

INDIANA OFFICE OF ENERGY & DEFENSE DEVELOPMENT

Guaranteed Energy Savings Contract Overview

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Main Points

Introduction to GESC

GESC Legislation

Office of Energy & GESC

Who are the players?

GESC Assessment

Case Study

Contact Information

What is a GESCC?

- ◆ A guaranteed energy savings contract is an agreement between a qualified provider and a building owner to reduce the energy and operating costs of a building, or a group of buildings, by a specified amount.
- ◆ **According to the Dept. of Energy, a typical school district with 4,000 students pays over \$400,000 on energy-related utilities each year. Energy-efficient design improvements provided under GESCCs could save over \$100,000 annually.**

Main Advantages of a GES

- ◆ The building owner can participate in the project **without** a large upfront capital investment.
- ◆ Energy cost savings are used to pay for the investment.
- ◆ If the guaranteed savings are not met, the provider must reimburse the building owner for the difference.

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GESC Legislation

- 1993** The passage of the guaranteed energy savings contract (GESC) program for school corporations.
- 1995** GESC legislation amended to include units of local government.
- 2006** GESC legislation amended to include waste water facilities.

GESC Legislation

- Under the most recent amendments to GESC legislation, the governing body participating in a GESC is required to provide the following to the Office of Energy:
 1. A copy of the signed Guaranteed Energy Savings Contract (only if dated after 2002)
 2. Pre-project energy costs and stipulated costs
 3. A completed Annual Savings Report form

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Role of The Office of Energy

- We collect, analysis, and store the GESOC annual reports and contracts.
- We have put together a comprehensive GESOC booklet for institutions who are interested in performance contracting.
- We provide a list of Energy Service Companies in Indiana who specialize in performance contracts.

*Both the GESOC booklet and list of ESCOs are located on our website, energy.in.gov

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Contractors

- ◆ The providers of these programs are certified by the Indiana Department of Administration and must meet the following requirements:
 - ◆ Experience in design, implementation, and installation of energy conservation measures.
 - ◆ Must provide monitoring services in addition to providing a performance bond and a guarantee of savings.

Contractors

Indiana Offices

- (57) Performance Services
- (46) Siemens Building Technologies
- (45) Honeywell Inc.
- (41) Johnson Controls Inc.
- (36) Energy Systems Group
- (20) Ameresco Inc.
- (12) Havel Brothers
- (6) Trane
- (4) Bowen Engineering
- (2) Precision Control Systems Inc.
- (2) Vestar Inc.
- (2) A. Hattersley & Sons Inc.
- (1) Davis Industries
- (1) Industrial Contracting and Eng.
- (1) Mattox & Associates
- (1) Odle McGuire & Shoo

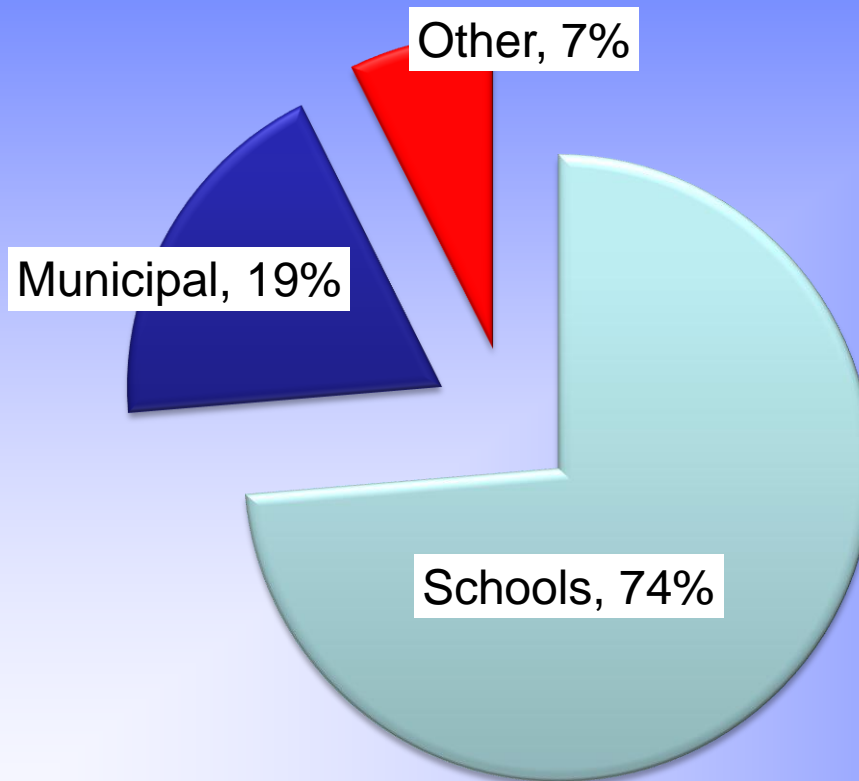
Out of State

- (2) American Energy Assets- CO
- (1) Exelon-Services-Solutions Group- IL

(#)= number of GESG contracts in
Indiana

Types of Organizations

GESC Project Buildings



Number of Buildings

Schools, 571

Municipal 147

Other, 57

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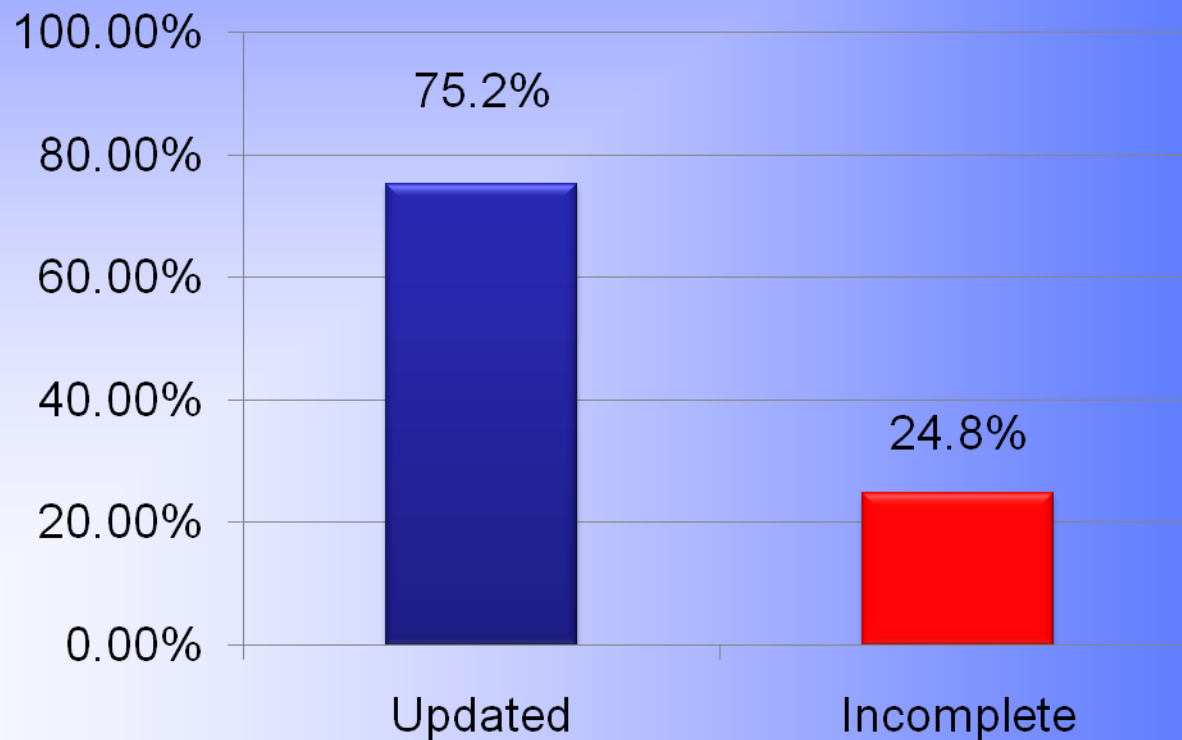
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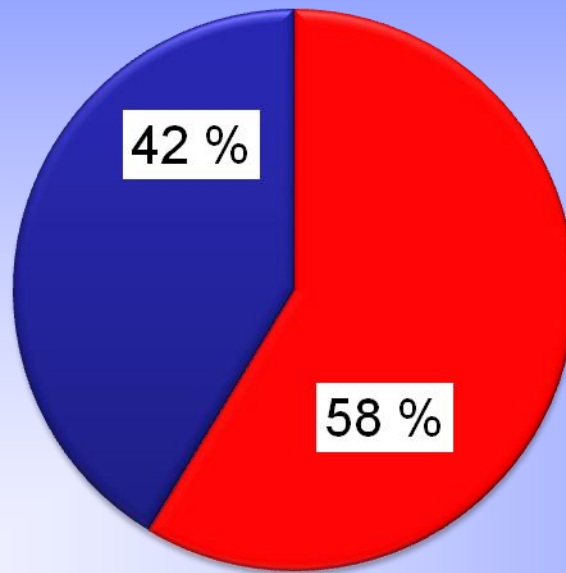
GESC Database

- Office of Energy GESC database information last updated June 24, 2008.



Projects to Date

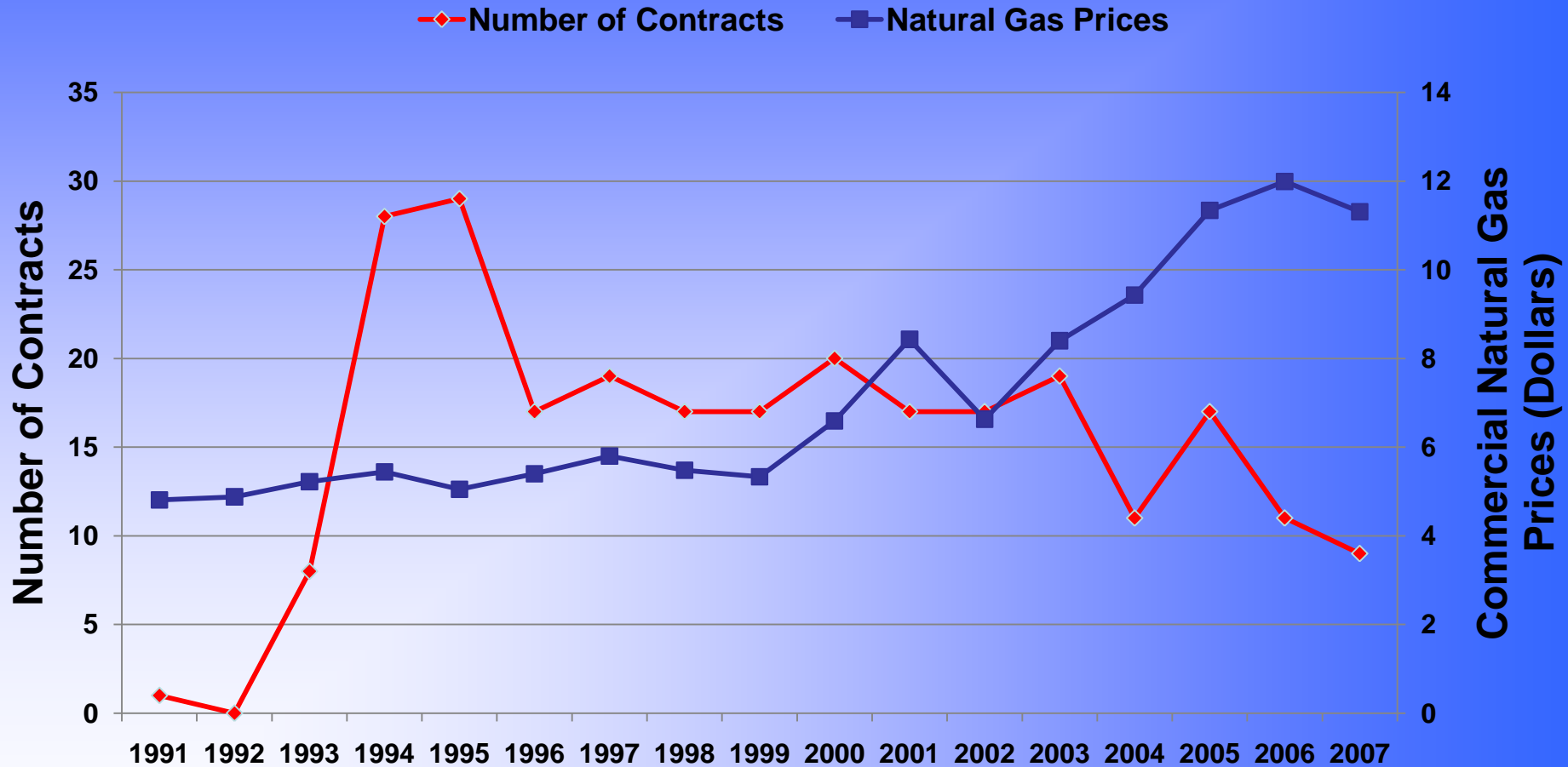
282 Total Projects



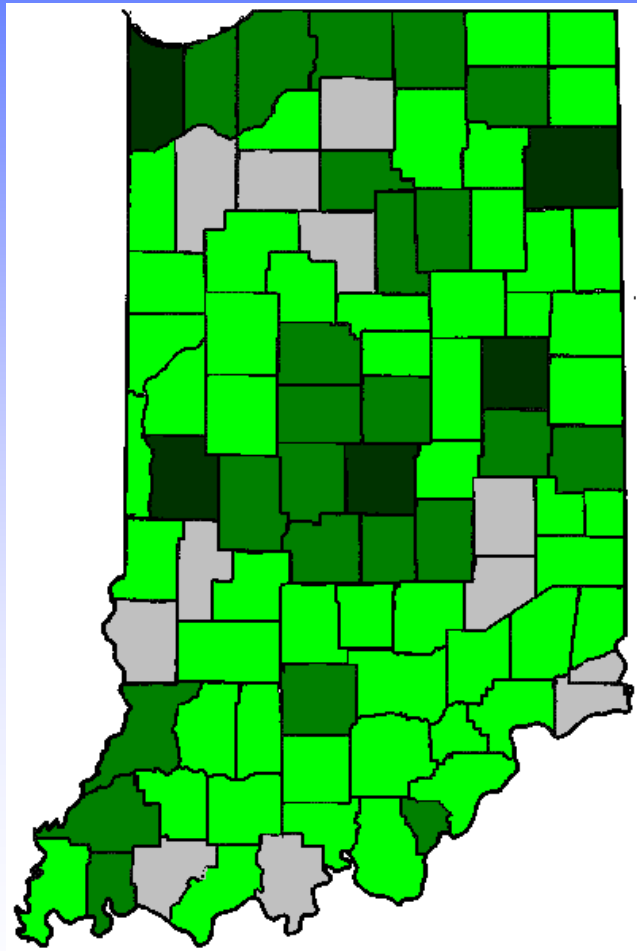
Open Projects, 166

Closed Projects, 117

Contract Start Dates



GESC Contracts by County



 = 1-2 projects

 = 3-5 projects

 = 6+ projects

Counties with 6+ Projects

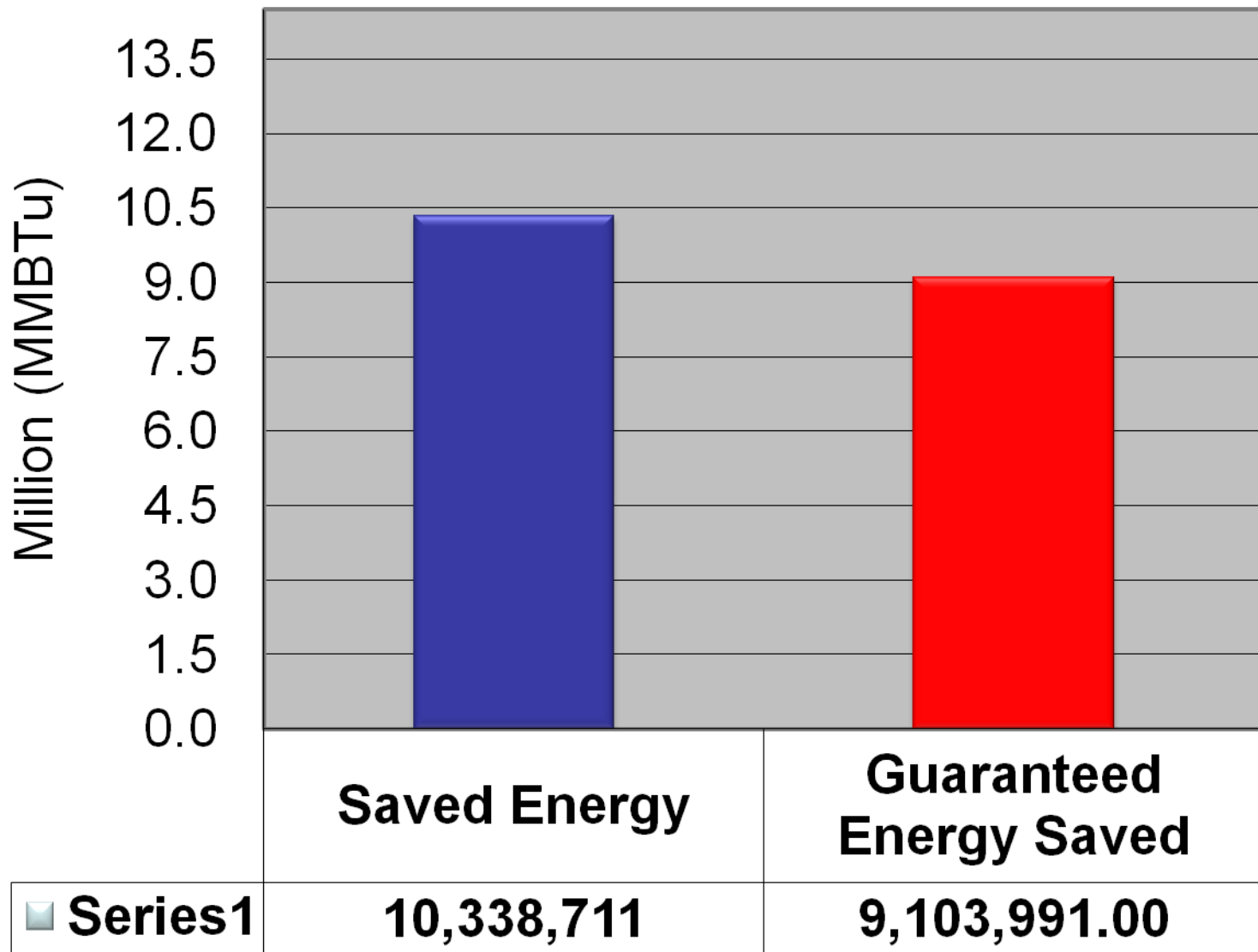
Marion- 8

Lake- 7

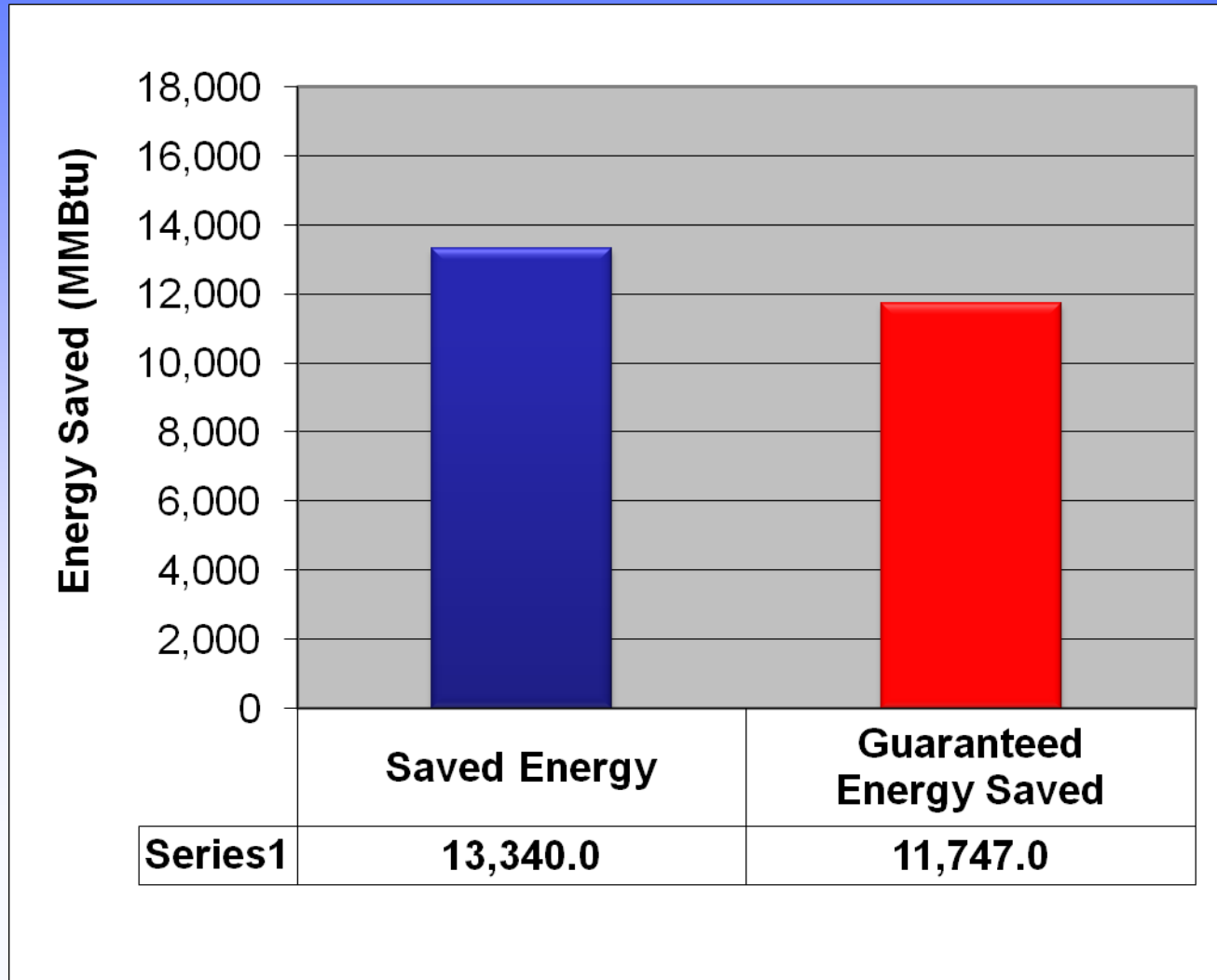
Allen- 6

Parke- 6

Total Energy Saved



Energy Saved Per Building



Equivalent Energy Savings

10,338,711 MMBtu

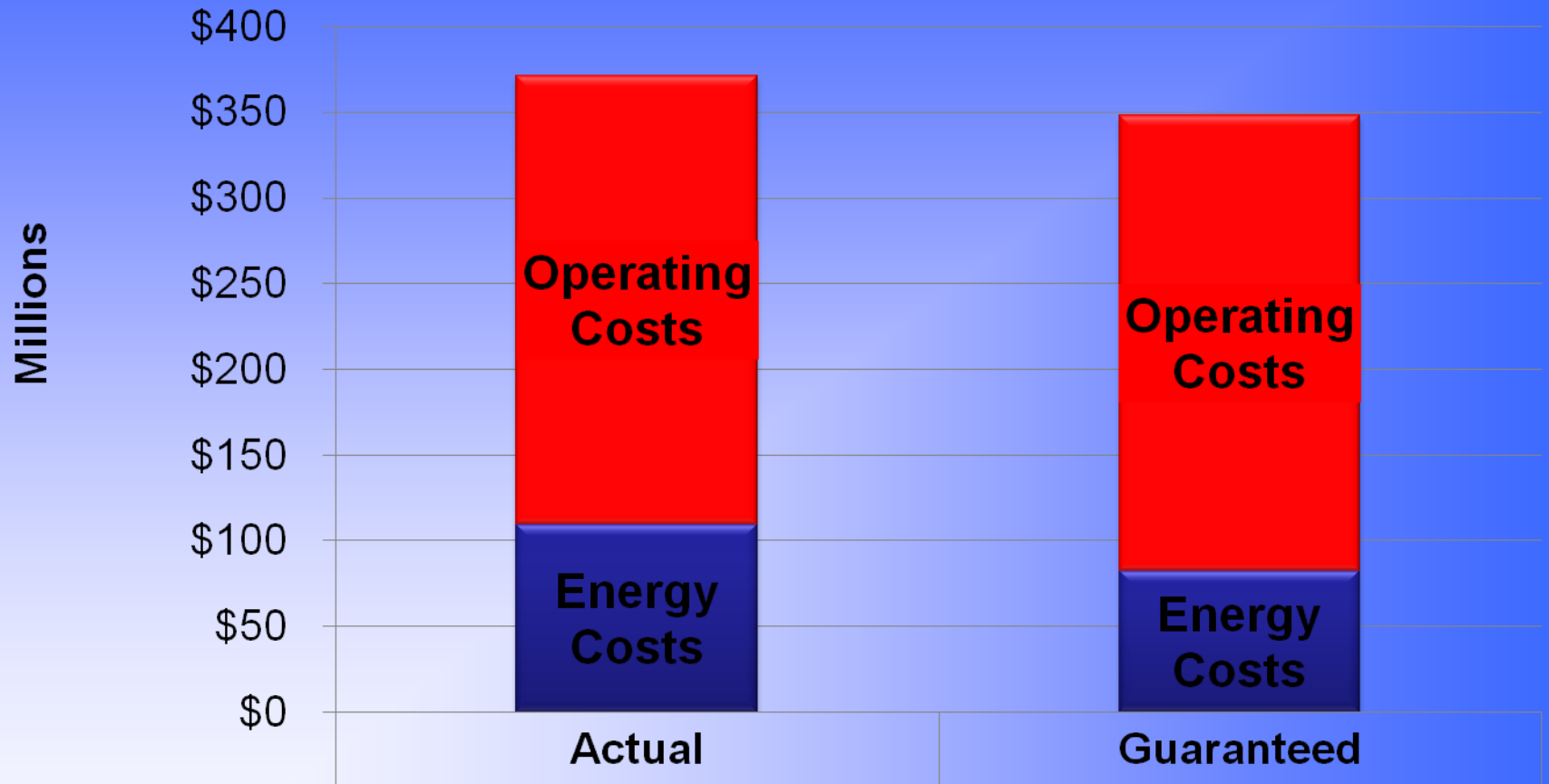


= 1.7 Million Barrels of Crude Oil



= 83 Million Gallons of Gasoline

Total Cost Savings



■ Operating Costs

\$261,455,635.59

\$265,875,918

■ Energy Costs

\$109,733,639.56

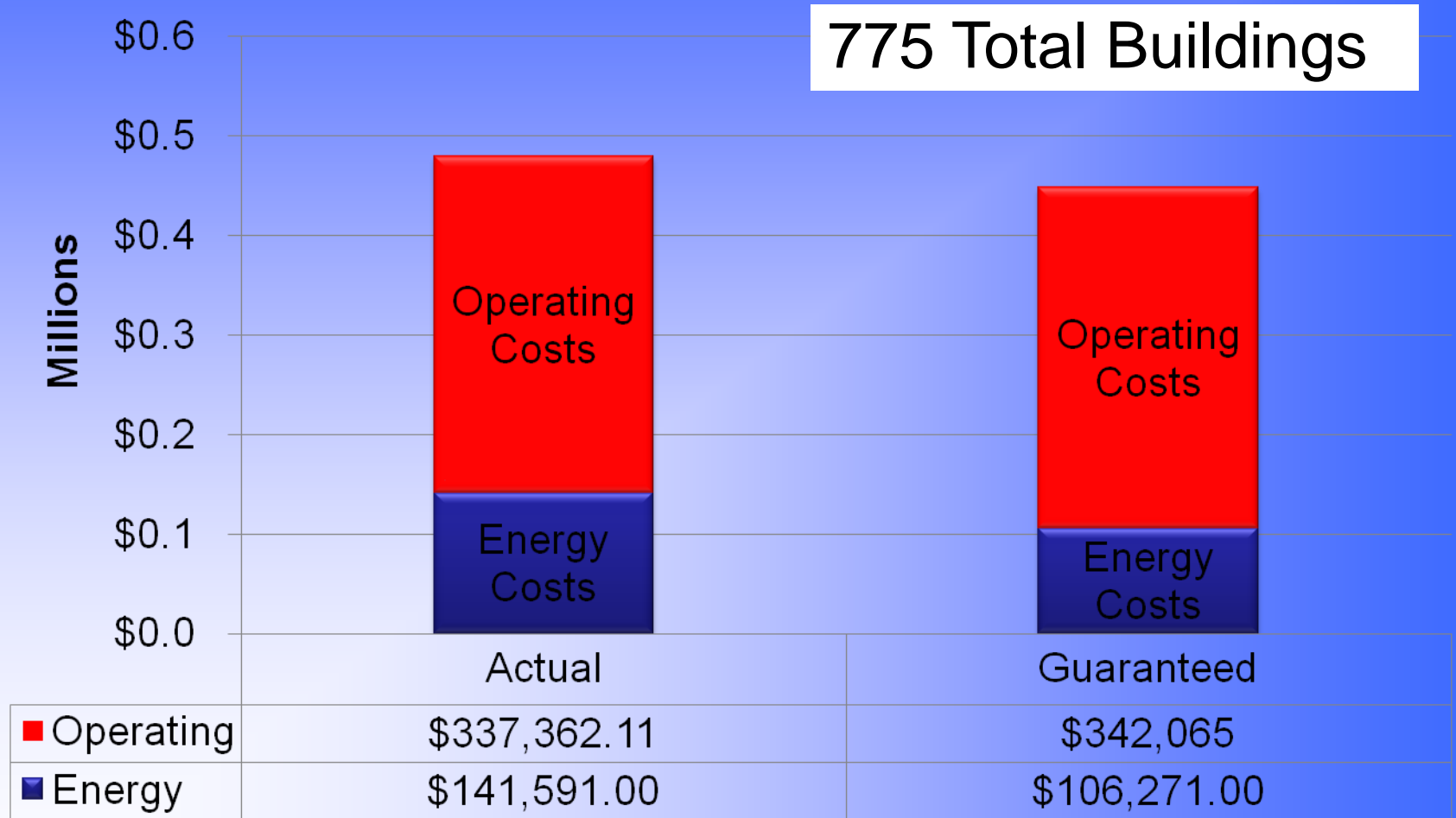
\$82,360,644.90

Total

\$371,189,275.15

\$348,236,562.90

Average Costs Savings Per Building

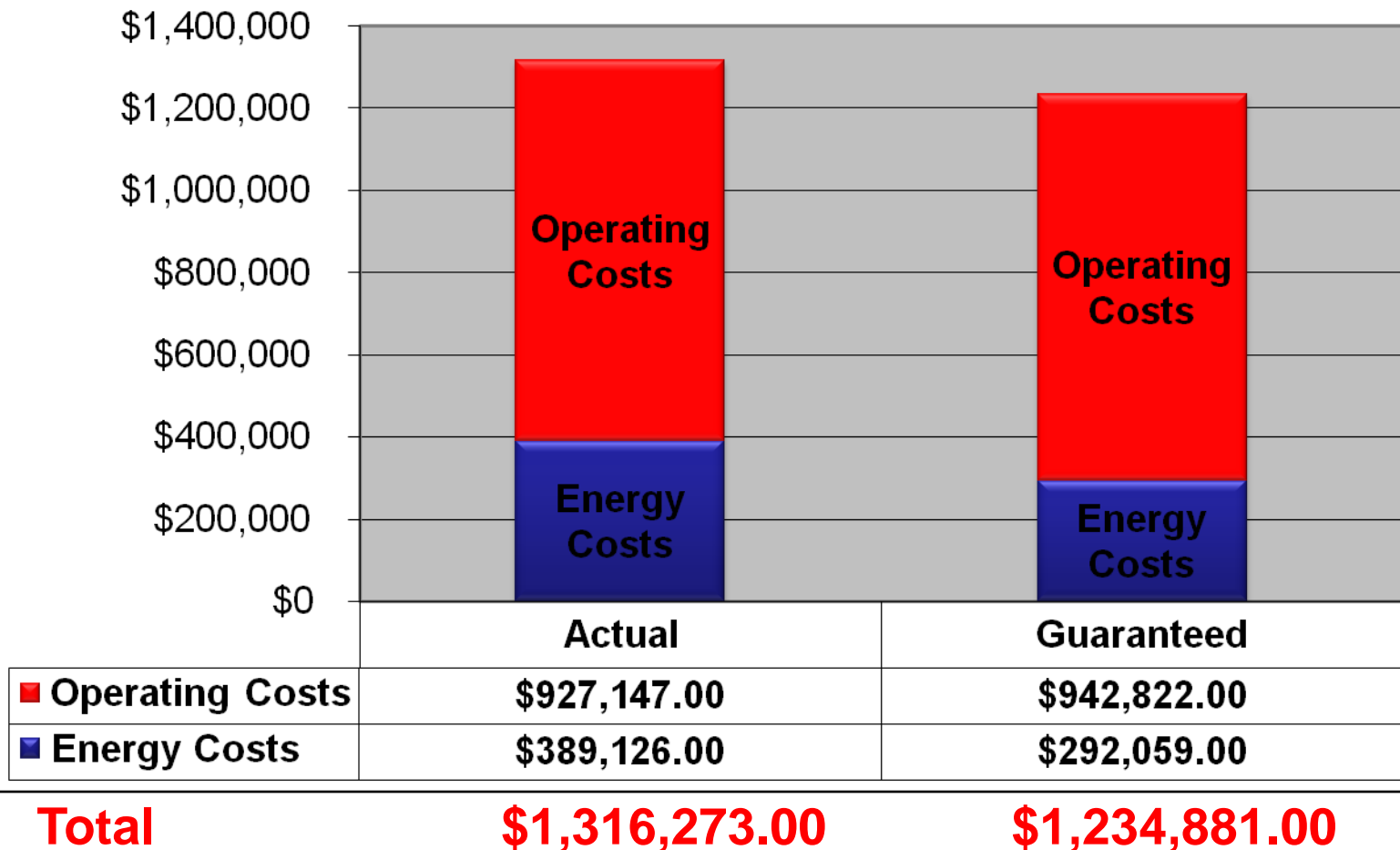


Total

\$1,274,504

\$1,186,762

Average Costs Savings Per Project



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Tell City-Troy Township School Corp.

Savings Measures:

(High School & Middle School)

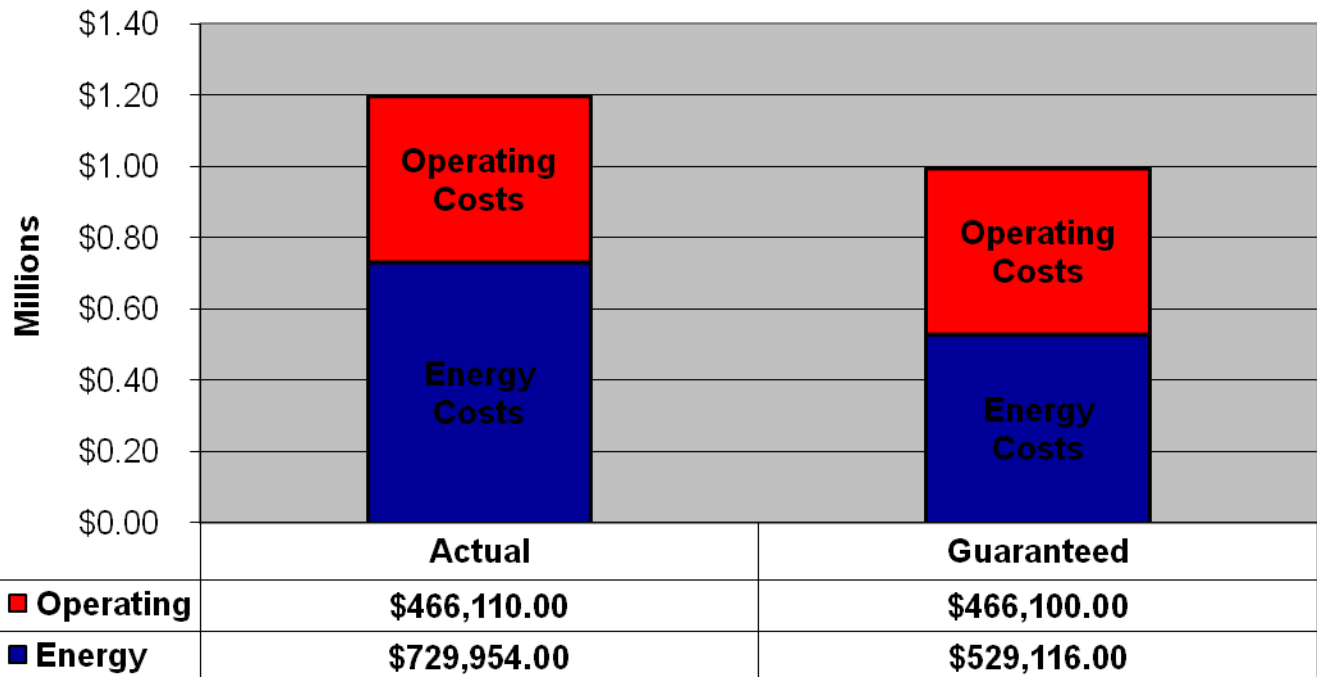
- Facility Management system
- DDC control upgrade
- Lighting retrofit
- Mechanical retrofit
- VFD installation

Perry County

Date Contract Signed:
April 9, 1996

Contractor:
Honeywell Inc.

Date Contract Expired:
December 31, 2006



Total

\$1,196,064.00

\$995,216.00

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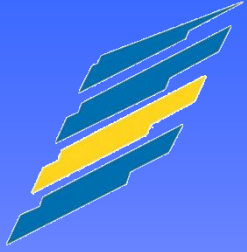
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